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## U.S. UTILITY Patent Application

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| Unauthorized disclosure may be prohibited by the United States Code Title 35, Sections 122, 181 and 368, Possession outside the U.S. Patent & Trademark Office is restricted to authorized employees and contractors only.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |                    |          |        |                  |                        |         |           |
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| and the second s |            |                    |          | U.S.   | DEPT. OF COMM./P | AT & TM-PTO-43         | 6L(Rev. | 12-94)    |
| Verified and Acknowledged Examin  TTLE: Optical waveguide to                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |            | on grating devi    | ce and a | nethod | of manufact      | uring there            | of      | -         |
| 35 USC 119 conditions met                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            | yes ⊒ no           |          | ]      | 12-338           | OKET NO                |         |           |
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| **CONTINUING DATA VERIFIED: THIS APPLN CLAIMS BENEFIT OF 60/340,484 12/18/2001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |            |                    |          |        |                  |                        |         |           |
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| **APPLICANTS: O                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | hmura Masa | iki; Shigehara     | Masakazı |        |                  |                        |         |           |
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